

School Recycling Club SHIP

(Supporting Home Instruction Program)



Lesson Plan 9

Grade Level: K-3

Lesson: III.B.2.—How Can We Reduce Waste? Recycling -
What's Recyclable

Source: *3 R's of the Common Core*

Activity/Craft: Sesame Street—Murray Visits a Recycling Center
(<https://www.youtube.com/watch?v=-oijMPVly-U>)

Video Link: Fun with Magnets (<https://www.youtube.com/watch?v=s236Q1nuWXg>)

Game Link: Recycling Relay Race (https://www.youtube.com/watch?v=j-1lt_fyGok)



Northeast Resource
Recovery Association

School
Recycling CLUB



Lesson Matrix Grade K-3

3R's of the Common Core

Lesson	Leading Question	Objective	Common Core Alignments	Skills	
K-3 Garbage Bag Recipe I.A.1	What things do we throw away?	Define solid waste Identify components of waste stream Question personal rubbish habits	Kindergarten CC.RI.K.10 CC.SL.K.1 CC.W.K.2 CC.K.MD.3	Grade 1 CC.RI.1.1 CC.SL.1.2 CC.W.1.2 CC.1.MD.4 Grade 3 CC.RI.3.1 CC.SL.3.1.c CC.W.3.4 CC.3.MD.3	Collaborating Communicating Conducting investigations Gathering information Using mathematics and computational skills
			Grade 2 CC.RI.2.1 CC.SL.2.3 CC.W.2.8 CC.2.MD.10		
K-3 Litter Walk I.A.2	What's the difference between human-made and natural litter?	Identify human-made and natural objects Classify	Kindergarten CC.L.K.5a CC.SL.K.2 CC.W.K.2	Grade 1 CC.L.1.5a CC.SL.1.2 CC.W.1.8	Collaborating Communicating solutions Investigating Problem solving
			Grade 2 CC.L.2.5a CC.SL.2.2 CC.W.2.8		
K-3 Too Much Packaging I.A.3	Will eating one piece of gum affect the size of our trash pile?	Examination of over-packaging	Kindergarten CC.RI.K.1 CC.SL.K.1 CC.K.CC.5	Grade 1 CC.RI.1.1 CC.SL.1.2 CC.1.MD.4 Grade 3 CC.RI.3.1 CC.SL.3.3 CC.3.MD.3	Collaborating Collecting data Communicating Problem solving Applying mathematical concepts
			Grade 2 CC.RI.2.6 CC.SL.2.1 CC.2.MD.10		
K-3 What's Hazardous? I.A.4	What does "toxic" mean?	Understand the meanings of: poison, toxic and hazardous waste Identify examples of poison, toxic and hazardous wastes and where they are found in the home	Kindergarten CC.RI.K.4 CC.SL.K.1 CC.W.K.2	Grade 1 CC.RI.1.4 CC.SL.1.1 CC.W.1.2 Grade 3 CC.RI.3.4 CC.SL.3.3 CC.W.3.2	Communicating Defining problems Gathering information Sharing research and writing
			Grade 2 CC.RI.2.4 CC.SL.2.1 CC.W.2.2		

Lesson	Leading Question	Objective	Common Core Alignments	Skills	
K-3 Machine I.B.1	Where do the things we use come from ?	Develop awareness of the natural origin of products we use Understand limited availability of some natural resources	Kindergarten CC.L.K.1.d CC.RI.K.3 CC.SL.K.2	Grade 1 CC.L.1.6 CC.RI.1.3 CC.SL.1.2	Analyzing Asking questions Communicating Problem solving
			Grade 2 CC.L.2.5a CC.RI.2.1 CC.SL.2.3		
K-3 Grandparents' Toys I.C.1	What kinds of toys are better for our environment?	Develop understanding of the amount of material consumed to make things Develop understanding of types of materials needed to make things Develop awareness of the impact of the things we make and the impact on solid waste	Kindergarten CC.SL.K.1 CC.SL.K.4 CC.W.K.8	Grade 1 CC.SL.1.1 CC.SL.1.4 CC.W.1.8	Communicating Comparing multiple solutions Interviewing Sharing research and writing
			Grade 2 CC.SL.2.1 CC.SL.2.4 CC.W.2.8		
K-3 Impressions with E.B. White I.C.2	What does "garbage" mean to you?	Define garbage and evaluate their first understanding of it Develop reasoning skills by looking for more productive alternative uses for garbage	Kindergarten CC.RL.K.1 CC.SL.K.1 CC.W.K.3	Grade 1 CC.RL.1.1 CC.SL.1.1 CC.W.1.3	Analyzing Applying ideas to solve problems Communicating Predicting
			Grade 2 CC.RL.2.1 CC.SL.2.1 CC.W.2.3		
K-3 Taking Trash Away II.A.1	Why do we take trash away? Where does it go? How does it get there ?	Understand the importance of trash removal Learn where trash is taken to and what happens to it	Kindergarten CC.RL.K.1 CC.SL.K.1 CC.W.K.8 CC.K.CC.5	Grade 1 CC.RL.1.1 CC.SL.1.1 CC.W.1.8 CC.1.MD.3	Collaborating Collecting data Interviewing Sharing research and writing Applying mathematical concepts
			Grade 2 CC.RL.2.1 CC.SL.2.1 CC.W.2.8 CC.2.MD.10		

Lesson Matrix Grade K-3

3R's of the Common Core

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Lesson	Leading Question	Objective	Common Core Alignments	Skills
K-3 Come Back to Me II.A.2	When we throw things away, where do they go?	Understand the problem society is having with proper placement of solid waste Understand that we need to find new solutions to solid waste that won't harm the environment	Kindergarten CC.RI.K.1 CC.RL.K.5 CC.SL.K.2 CC.W.K.2	Collaborating Communicating solutions Defining problems Problem solving
			Grade 2 CC.RI.2.1 CC.RL.2.1 CC.SL.2.2 CC.W.2.8	
K-3 Litter Garden II.A.3	What happens to our trash after we throw it out?	Compare decomposition rates of different objects Develop an understanding of how littering impacts the environment	Kindergarten CC.RI.K.4 CC.SL.K.1 CC.W.K.8	Analyzing Developing models Investigating Sharing research and writing
			Grade 2 CC.RI.2.4 CC.SL.2.3 CC.W.2.8	
K-3 Egg Cartons III.A.1	Is some packaging better than others?	Recognize that some products entering the waste stream are more harmful to the environment than others Develop an understanding that one can make a difference by carefully choosing what they use	Kindergarten CC.RI.K.4 CC.SL.K.1 CC.W.K.2	Collaborating Communicating solutions Inventing Researching
			Grade 2 CC.RI.2.4 CC.SL.2.3 CC.W.2.8	
K-3 Yesterday's Paper III.A.2	What can we make with this box?	Recognize other uses for items we normally throw away Create a new purpose for something being thrown away	Kindergarten CC.RL.K.5 CC.SL.K.4 CC.W.K.2	Applying ideas to solve problems Collaborating Designing Sharing research and writing
			Grade 2 CC.RL.2.4 CC.SL.2.2 CC.W.2.1	

How Can We Recycle Our Resources?

Concept

Some materials are easier to recycle than others.

Objective

Students will distinguish recyclable from non-recyclable materials and will know how to prepare them for recycling.

Method

Students will select pictures from magazine and will sort and prepare materials for recycling.

Materials

Old magazines, magnets, scissors, glue, What's Recyclable handout

Subjects

Social Studies, Science, Language Arts

Skills

Sharing research and writing, analyzing, investigating, problem solving

Time

Two class periods, ongoing station activities

Vocabulary

Magnetism, aluminum, steel, recycle

Resources

Dare Wright, *Edith and Little Bear Lend a Hand*; Ann Zane Shanks, *About Garbage and Stuff*; Alison Inches, *The Adventures of a Plastic Bottle* and *The Adventures of an Aluminum Can*

3R's of the Common Core

Parallel Activities

4-6, Where to Recycle

7-8, Source Separating

9-12, Collecting and Sorting

Information

Components of the Waste Stream

Resources:

Solid Waste and Recycling

Background

Virtually all things could be recycled in one manner or another. But some are more easily recyclable than others. And many objects, while recyclable, may not be collected in our area.

Leading Questions

What objects can be recycled?

Procedure

1. After reading your local landfill recycling information with the class, share a list of recyclable materials. Distribute handout (at end of lesson) to each student. Ask students to circle the items that they know they can recycle in their town.
2. Ask each student to select a picture of an object that is reusable or recyclable from an old magazine. Each student will write out how this item is recyclable. Younger students can match their item to a recyclable category you provide for them. Each student will explain to the class why his or her object is recyclable. Make a collage of the pictures. Place the students notes about the items along the collage borders.
3. Recyclable materials include newspaper, corrugated cardboard, ledger paper, steel cans, aluminum, three colors glass (brown, green, clear), plastic milk, water or juice jugs [HDPE] and soda bottles (PET). Demonstrate how to prepare each of the sample materials for recycling and set up a recycling station where students can properly sort the materials. After your demonstration, students will look over 'trash' and locate and identify information on it that may help to sort it such as : #1, #2, or the letters (HDPE) and (PET) on plastics.



Common Core Alignments

KINDERGARTEN

CC.SL.K.1

Speaking & Listening:
Comprehension & Collaboration

CC.W.K.2

Writing:
Text Types & Purposes

CC.K.CC.5

Mathematics:
Counting & Cardinality

GRADE 1

CC.SL.1.1

Speaking & Listening:
Comprehension & Collaboration

CC.SL.1.5

Speaking & Listening:
Presentation of Knowledge & Ideas

CC.W.1.3

Writing:
Text Types & Purposes

GRADE 2

CC.SL.2.1

Speaking & Listening:
Comprehension & Collaboration

CC.SL.2.6

Speaking & Listening:
Presentation of Knowledge & Ideas

CC.W.2.8

Writing:
Research to Build & Present Knowledge

GRADE 3

CC.SL.3.3

Speaking & Listening:
Comprehension & Collaboration

CC.SL.3.4

Speaking & Listening:
Presentation of Knowledge & Ideas

CC.W.3.3

Writing:
Text Types & Purposes

Evaluation

What are the easiest materials to recycle?

Classroom Activities

A. Magnets are pieces of iron or steel which attract other ferrous metal (containing iron or steel). Magnets will not attract aluminum. Have each student demonstrate the use of magnets in telling the difference between aluminum and steel objects. Examples may include the following:

Aluminum

Soda can
Lasagna pan
Foil wrap
Cookware
Airplane

Steel

Soup can
Scissors
Paperclip
Nail
Spoon
Ships
Cars

- B. Note other differences between the two, such as weight, presence or lack of seams, ribbing and paper labels.
- C. Have students make a *How to Recycle* book to bring home for their families. Encourage students to use the handout from step one to provide visuals for their book.
- D. Take collected recyclables on a field trip to a recycling center. Students may also read and learn about Preserve, a company whose mission is "to help reduce the harm caused by the industrial age by demonstrating that consumer products can be both fabulous and lighter on the earth." "Mission," Preserve, accessed June 12, 2016, <https://www.preserveproducts.com/explore/preserve-101/mission>. Students can learn how they can help collect #5 plastics that can be turned into toothbrushes and other products.
- E. Older students may play a recycling relay race. Divide class into teams. Each student picks an object from a bag of mixed clean trash and delivers it to a box or bag labelled non-recyclable (landfill) or with the type of recyclable (metal, paper, plastic, reuse).
- F. Students design a recycling center for their home.
See 7-8, Ill.B. 1, Source Separating

